

REMARKS

1. In response to the final Office Action mailed May 23, 2007, Applicant respectfully requests reconsideration. Claims 1-4, 9, 13, 14, 16, 17 and 21-30 were last presented in the application. In the outstanding Office Action, all the pending claims were rejected.
2. In this paper claim claims 1, 14, 17 and 30 have been amended. No claims have been cancelled or added. Thus, upon entry of this paper, claims 1-4, 9, 13, 14, 16, 17 and 21-30 will remain pending in this application. Of these nineteen (19) claims, four (4) claims (claims 1, 14, 17 and 30) are independent.
3. Based on the following Remarks, Applicant respectfully requests that all outstanding rejections be reconsidered, and that they be withdrawn.

Art of Record

4. Applicant acknowledges receipt of form PTO-892 listing an additional reference identified by the Examiner.

Claim Rejections

5. In the outstanding Office Action, claim 30 was rejected under 35 U.S.C. Section 102(a) as anticipated by "Otter: A General Purpose Network Visualization Tool," June 3, 2000, ISOC Inet 99 (Huffaker et al.); and claims 1-4, 9-14 and 21-26 were rejected under 35 U.S.C. Section 103(a) as being unpatentable over Huffaker et al. in view of U.S. Patent No. 7,127,743 (Khanolkar et al.). Reconsideration is respectfully requested.

USC Section 102 Rejections

6. Claim 30 has been rejected under 35 U.S.C. Section 102(a) as anticipated by Huffaker et al. Reconsideration is respectfully requested.

7. Claim 30 has been amended to clarify the invention. In particular, claim 30 has been amended to recite:

retrieving network device information related to the plurality network devices in said one or more networks which satisfy said selected plurality of filter criteria;
providing a filter language allowing Boolean queries of said plurality of filter criteria in said retrieved network device information;
setting attributes for network devices based on data collected, wherein said data collected further comprises retrieved network device information and said Boolean queries of said plurality of filter criteria.

8. Claims 1, 14, 17 and 30 have been similarly amended. Support for the amendments is provided at least by the specification and shown at least in **FIG. 2**. In particular, as shown at least in **FIG. 2** and discussed in the specification, the claimed invention comprises at least a display **220**,

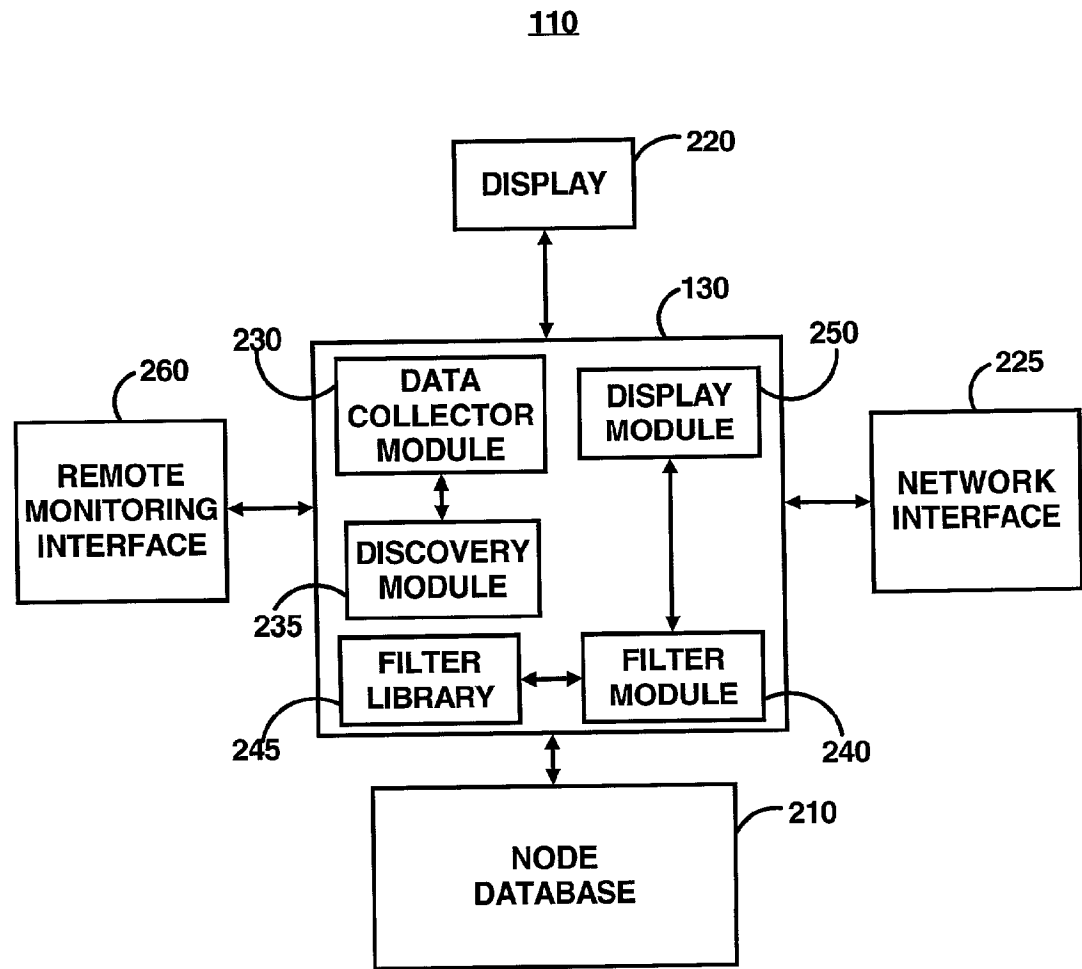


FIG. 2 of Published Application (US 2002/0165934)

a discovery module 235, a filter module 240 and a display module 250.¹ Further, the specification and FIG. 2 disclose the filter module 240 retrieves information from the node database 210 for particular nodes 120 based on filters selected.² Furthermore, the specification and FIG. 2 disclose the filter module 240 may provide a filter language allowing Boolean queries including the filters for retrieving information for particular nodes 120.³ Moreover, the specification discloses the discovery module 235 may set attributes for network nodes 120 based

¹ US Patent Application No. US 2002/01655934 at FIG. 2; and paragraph [0028].

² *Id.* at FIG. 2; and paragraph [0031].

³ *Id.* at FIG. 2; and paragraph [0031].

on data received by the data collector module 230.⁴ Therefore, it is respectfully submitted that the amendment raises no question of new matter.

9. Huffaker et al. discloses an Internet Data Analysis tool for visualizing arbitrary network data that can be expressed as a set of nodes, links or paths.⁵ In particular, as shown in **Figure 11**, Huffaker et al. discloses a main display window and graph objects with

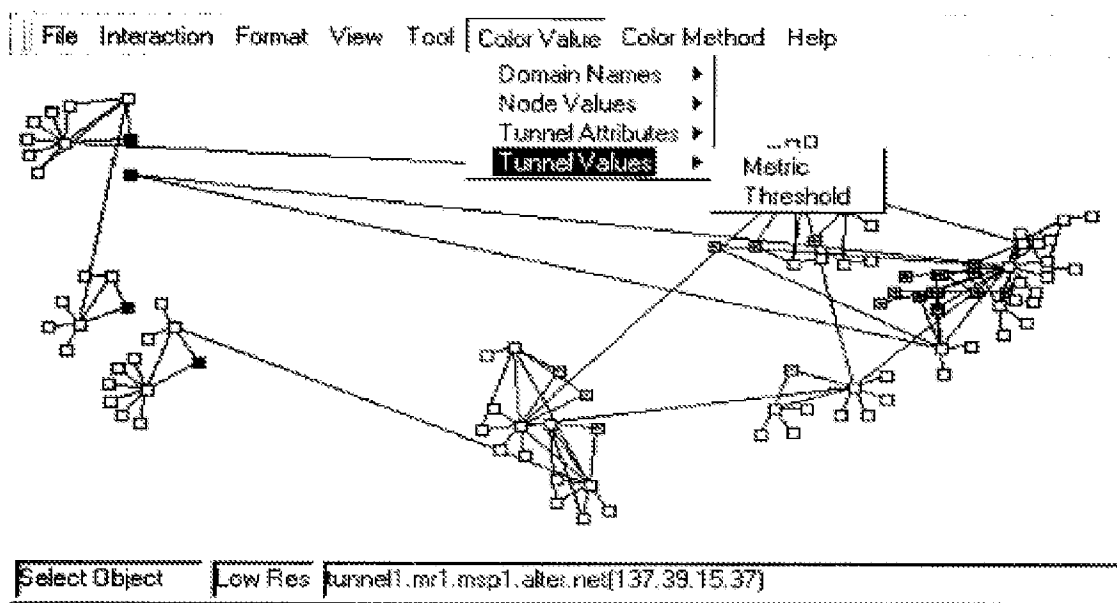


Figure 11: Otter main display window, with customized menu labels

no value for a particular attribute are shown with their default object color: white squares with black outline (node objects), black lines (link objects), or complete sequences of black lines (end-to-end path objects) (emphasis added).⁶

10. Further, as shown in **Figure 11**, Huffaker et al. discloses a "Color-by" pull-down menu that offers "*Tunnel Values*" as a top level choice that further offers a sub-menu of: "*metric*" or

⁴ *Id.* at **FIG. 2**; and paragraph [0030].

⁵ Huffaker et al. at ABSTRACT.

⁶ *Id.* at **Figure 11**; and page 11 at paragraph entitled "Otter-compatible format: example."

“threshold.”⁷ Furthermore, Huffaker et al. discloses using a data format specification that does stipulates attributes of each object in the data file, which the data analysis tool uses to tailor its visualizations.⁸

11. Moreover, Huffaker et al. discloses entering a Boolean expression that filters values for a particular object/attribute pair and that provides Boolean coloring that draws objects (nodes, links, or paths) as blue if they match the Boolean expression, and as gray otherwise.⁹

12. However, it is respectfully submitted that Huffaker et al. nowhere disclose, as amended claim 30 recites:

retrieving network device information related to the plurality network devices in said one or more networks which satisfy said selected plurality of filter criteria;
performing Boolean queries on said plurality of filter criteria in said retrieved network device information;
setting attributes for network devices based on data collected, wherein said data collected further comprises retrieved network device information and said Boolean queries of said plurality of filter criteria (emphasis added).

That is, though as discussed above, Huffaker et al. discloses: “data format specification that does stipulates attributes,” Huffaker et al. nowhere discloses: “setting attributes for network devices based on data collected” or that the data collected is comprised of “retrieved network device information.” Therefore, it is respectfully submitted that Huffaker et al. does not disclose, anticipate or inherently teach the claimed invention and that claims 1, 14, 17 and 30 patentably distinguishes thereover.

⁷ *Id.* at **Figure 11**; and page 11 at paragraph entitled “Otter-compatible format: example.”

⁸ *Id.* at **Figure 11**; and page 11 at paragraph entitled “Otter-compatible format: example.”

⁹ *Id.* at page 8 at paragraph entitled “Binary coloring and masking.”

USC Section 103 Rejections

13. Claims 1-4, 9-14 and 21-26 were rejected under 35 U.S.C. Section 103(a) as being unpatentable over Huffaker et al. in view of Khanolkar et al. Reconsideration is respectfully requested.

14. Independent claims 1, 14 and 17 have been amended as discussed above. The remaining claims ultimately depend upon these independent claims. Also, as discussed above, Huffaker et al. does not disclose the limitations of these independent claims. Thus, at least for the reasons discussed above, Huffaker et al. also does not disclose the limitations of claim 1-4, 9-14 and 21-26.

15. In addition, the outstanding Office Action acknowledges other deficiencies of Huffaker et al. and attempts to overcome these deficiencies by combining Khanolkar et al. with Huffaker et al. However, Khanolkar et al. cannot overcome all of the deficiencies of Huffaker et al., as discussed below.

16. Khanolkar et al. discloses a computer system for detecting and monitoring network intrusion events from log data received from network service devices in a computer network.¹⁰ However, it is respectfully submitted that Khanolkar et al. nowhere disclose, as amended claim 1 recites:

retrieving network device information related to the plurality network devices in said one or more networks which satisfy said selected plurality of filter criteria;
 performing Boolean queries on said plurality of filter criteria in said retrieved network device information;
 setting attributes for network devices based on data collected, wherein said data collected further comprises retrieved network device information and said Boolean queries of said plurality of filter criteria (emphasis added).

¹⁰ Khanolkar et al. at ABSTRACT.

Claims 14 and 17 are similarly amended. That is, Khanolkar et al. nowhere discloses: “setting attributes for network devices based on data collected” or that the data collected is comprised of “retrieved network device information.” Thus, Khanolkar et al. cannot overcome all of the deficiencies of Huffaker et al. Therefore, it is respectfully submitted that neither Huffsaker et al. nor Khanolkar et al., whether taken individually or in combination, do not disclose, suggest or make obvious the claimed invention and that claims 1, 14, 17, and claims dependent thereon, patentably distinguishes thereover.

Dependent Claims

17. The dependent claims incorporate all of the subject matter of their respective independent claims and add additional subject matter which makes them *a fortiori* independently patentable over the art of record. Accordingly, Applicant respectfully requests that the outstanding rejections of the dependent claims be reconsidered and withdrawn.

Conclusion

18. In view of the foregoing, this application should be in condition for allowance. A notice to this effect is respectfully requested.

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Respectfully submitted,

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